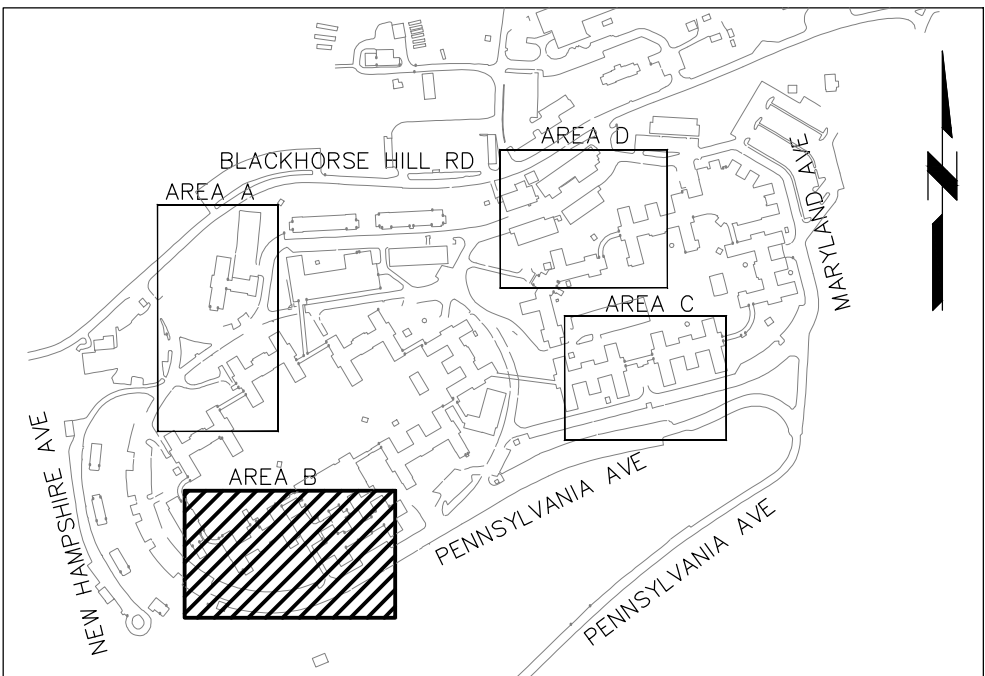




FIGURE 1: EXISTING STAIRS, RETAINING WALLS, AND SLAB TO BE IMPACTED BY CONSTRUCTION. NOTE EXISTING FLOOR DRAIN IN CENTER OF DEPRESSED SLAB. CONTRACTOR SHALL NOT RELY ON THIS IMAGE AND IS RESPONSIBLE FOR COMPLETING THEIR OWN SITE ASSESSMENT AND IDENTIFYING IMPACTS. ANY EXISTING FACILITIES DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED TO MATCH PRE-CONSTRUCTION CONDITIONS OR BETTER.



VICINITY / KEY MAP - SITE PLAN
NTS

GENERAL NOTES:

1. ALL CURED IN PLACE LINERS TO BE DESIGNED FOR FULLY DETERIORATED INSTALLATION AND ARE TO BE INSTALLED MANHOLE TO MANHOLE.
2. REPLACED PIPE (OPEN CUT) SHALL BE REPLACED WITH SDR-35 PVC SEWER PIPE.
3. CONTRACTOR IS RESPONSIBLE FOR RETURNING THE SITE BACK TO ORIGINAL OR BETTER CONDITIONS.
4. SEE SHEETS CU-3A THROUGH CU-3D FOR PIPE DIA, SLOPE, AND DEPTHS.

MANHOLE CONSTRUCTION NOTES:

- ① REPLACE MANHOLE RIM PER DETAIL 2, CU-42
- ② CIP LINE MANHOLE PER DETAIL 1, CU-43
- ③ REPAIR MANHOLE BENCH PER DETAIL 2, CU-43
- ④ REPLACE MANHOLE WITH NEW 48"Ø MANHOLE PER DETAIL 1, CU-41. REPLACE EX CI PIPE TIE-INS WITH SDR-35 PVC AS APPLICABLE




CONSTRUCTION NOTES:

- 1 REPLACE TO MATCH EXISTING CONCRETE SIDEWALK PER DETAIL 5, CU-46.
- 2 REPLACE TO MATCH EXISTING CURB TYPE AND CONDITION PER DETAILS 1, 2, OR 4, CU-46.
- 3 RE-STRIPE PARKING STALL PER DETAIL 3 AND 4, CU-46.
- 4 REPLACE TRASH ENCLOSURE TO MATCH EXISTING CONDITIONS. CHAIN LINK FENCE SHALL BE SALVAGED AND REUSED, FENCE IS BLACK VINYL COATED WITH ALUMINUM PRIVACY SLOTS. CONCRETE PADS SHALL BE DOCUMENTED AND SUBMITTED TO THE COR ALONG WITH A SHOP DRAWING FOR RECONSTRUCTION FOR APPROVAL PRIOR TO CONSTRUCTION.
- 5 STAIRS SHALL BE SALVAGED AND REUSED. DAMAGED PIECES SHALL BE REPLACED WITH COMPONENTS THAT MATCH PERIOD, STYLE, MATERIAL, AND COLOR. (SEE FIGURE 2 ON SHEET CU-2C ONLY).
- 6 TURN OFF STEAM LINE 24 HOURS PRIOR TO CIPP INSTALLATION; NOTIFY COR AT LEAST 2 WEEKS PRIOR TO SHUTTING OFF STEAM LINE. TEMPERATURE MUST MEET MANUFACTURER REQUIREMENTS. (SHEET CU-2B ONLY).
- 7 PROTECT FACILITY IN PLACE. REMOVAL OF ANY STRUCTURAL COMPONENTS SHALL BE COORDINATED WITH VA COR PRIOR TO DEMOLITION. (SHEET CU-2B ONLY).
- 8 REPLACE ASPHALT PER DETAIL 6, CU-46, COMPLY WITH TRAFFIC NOTES ON G-2 AS APPLICABLE.

PIPE CONSTRUCTION NOTES:

- ① CUT ROOTS FLUSH WITH PIPE WALL.
- ② REMOVE DEBRIS AND GREASE FROM PIPE.
- ③ INSTALL NEW STORM DRAIN LINE (SHEET CU-2B ONLY).
- ④ EXISTING TREE(S) TO BE REMOVED AND REPLACED PRIOR TO OPEN CUT SEWER REPLACEMENT (ADD OR DEDUCT ALTERNATE #1).
- ⑤ IMPROVE EXISTING CAST IRON LATERAL PER DETAIL 5, CU-45.
- ⑥ INSTALL CLEANOUT IN MONUMENT PER DETAIL 3, CU-42.

LEGEND

- | | |
|---|-------------------------------|
|  | EXISTING TREE, DECIDUOUS |
|  | RELINE WITH PIPE |
|  | CLEAN PIPE IN PLACE |
|  | OPEN CUT PIPE AND REPLACE |
|  | PARKING AND DRIVE AREA |
|  | CONCRETE WALKWAY AND DRIVEWAY |

MANHOLE INFORMATION		
LABEL	NORTHING	EASTING
SMH 93	247738.16	2515246.51
SMH 94	247750.11	2515409.35
SMH 34	247910.40	2515417.14
SMH 33	247731.76	2515151.31
SMH 32	247909.87	2515419.21
SMH 32B	247933.85	2515469.97

LOCATION OF UNDERGROUND UTILITIES

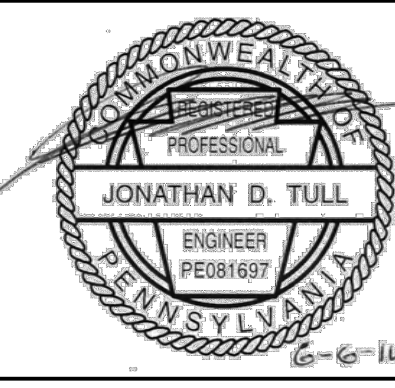
CONTRACTOR CANNOT RELY UNOAVAILABLE VA AS-BUILT DRAWINGS TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES. PRIOR TO ANY EXCAVATING, CONTRACTOR IS REQUIRED TO MAKE SURE THAT THE LOCATION OF ALL UNDERGROUND UTILITIES IN EXCAVATION SITES IS ACCURATELY IDENTIFIED. IT WILL BE REQUIRED FOR THE CONTRACTOR TO EMPLOY THE SERVICES OF A SUBSURFACE UTILITY ENGINEERING FIRM AND CONDUIT SURVEY TO LOCATE ALL UNDERGROUND UTILITIES IN SITES TO BE EXCAVATED. SUCH SURVEYS MIGHT UTILIZE GEOPHYSICAL PROSPECTING TECHNIQUES, AND ELECTROMAGNETICS. IN SOME CIRCUMSTANCES THESE CONVENTIONAL METHODS DO NOT PRECISELY LOCATE THE UTILITIES, IN WHICH CASE THE FOLLOWING ADDITIONAL MEANS MAY BE UTILIZED: TV VIDEO PIPE INSPECTION, GROUND PENETRATING RADAR (FOR NON-METALLICS), AND VACUUM EXCAVATION. THE SUBSURFACE UTILITY ENGINEERING ANALYST MUST MAINTAIN NECESSARY TRAFFIC CONTROL AND SAFETY STANDARDS TO DELIVER A COMPREHENSIVE REPORT ON ALL UNDERGROUND UTILITIES. SURVEY MARKS MUST BE PLACED AT THE LOCATION OF EACH UTILITY. GENERATE ILLUSTRATIONS FOR SITE MUST BE PROVIDED. THE UTILITY LOCATION & COORDINATION UNIFORM COLOR CODE MUST BE USED FOR THE GROUND MARKS AND ILLUSTRATIONS.



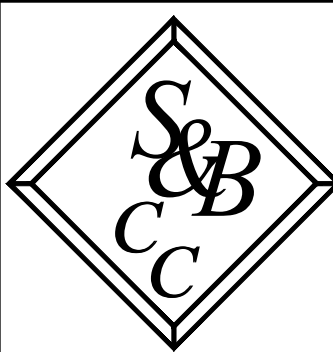
ALWAYS THINK SAFETY

[illegible]

CONSULTANTS



ENGINEERS:



S&B CHRIST CONSULTING, LLC
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5580 S. FORT APACHE RD. #130
LAS VEGAS, NV 89148
OFFICE: (702) 202-6004 SBCHRISTCC

SBCHRISTCONSULTING.COM

Drawing Title
SEWER IMPROVEMENTS
AREA B

Approved: Facilities Engineering Service Chief

Approved: Medical Center Director

Project Title
VAMC COATESVILLE
SANITARY SEWER
REPLACEMENT

Location	
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Date

Checked

Drawn

Project Number

Building Number

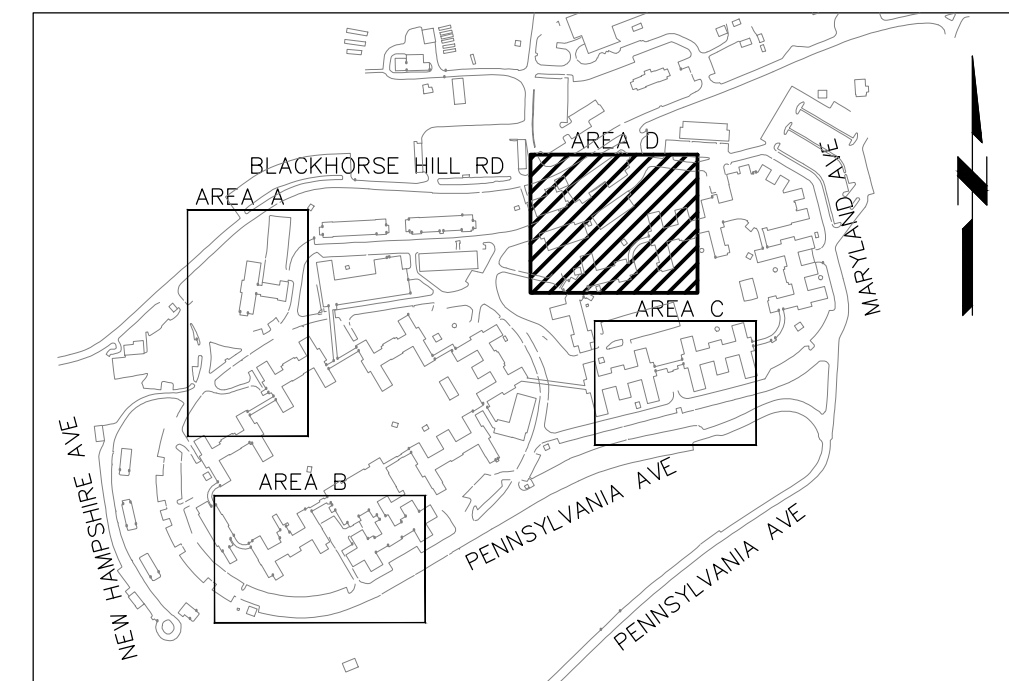
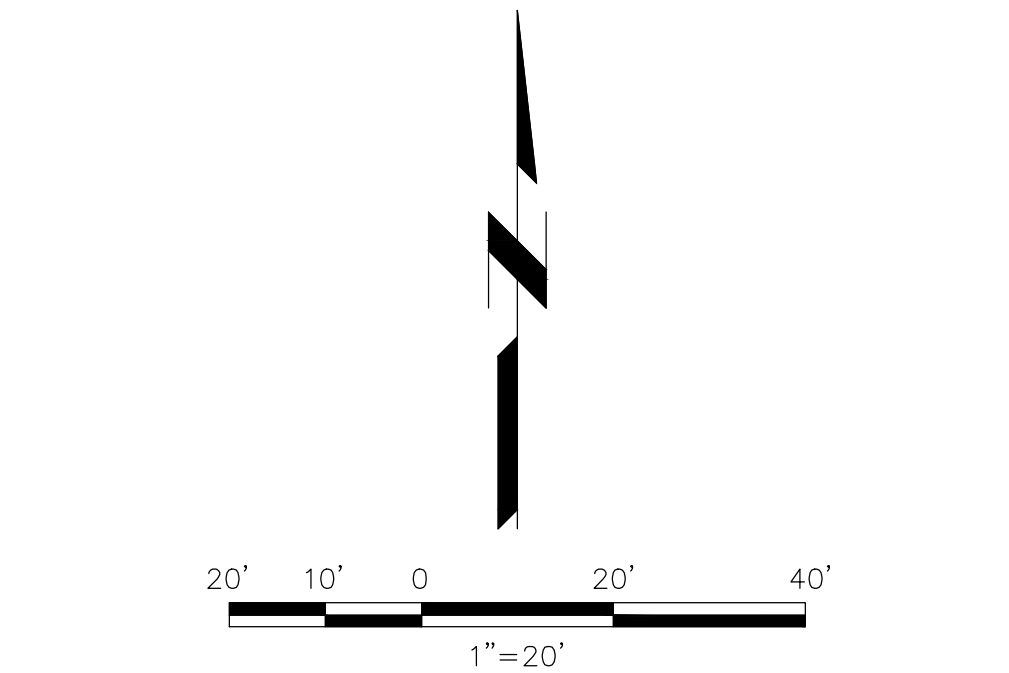
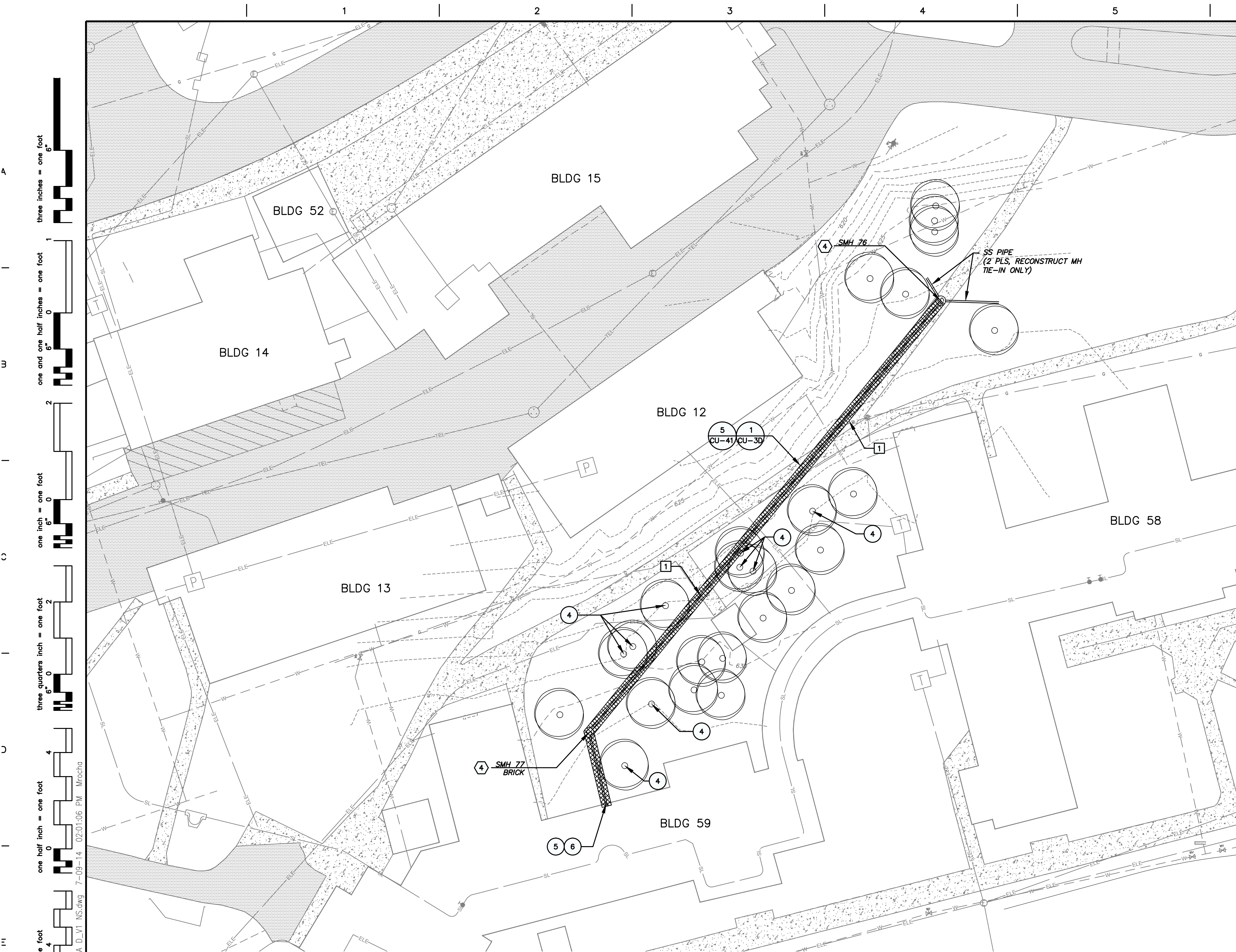
Drawing Number

CU-2E

Dwg. 9 of 21

Office of
Construction
and Facilities
Management

Department of
Veterans Affairs



VICINITY / KEY MAP - SITE PLAN
NTS

GENERAL NOTES:

1. ALL CURED IN PLACE LINERS TO BE DESIGNED FOR FULLY DEGRADATED INSTALLATION AND ARE TO BE INSTALLED MANHOLE TO MANHOLE.
2. REPLACED PIPE (OPEN CUT) SHALL BE REPLACED WITH SDR-35 PVC SEWER PIPE.
3. CONTRACTOR IS RESPONSIBLE FOR RETURNING THE SITE BACK TO ORIGINAL OR BETTER CONDITIONS.
4. SEE SHEETS CU-3A THROUGH CU-3D FOR PIPE DIA, SLOPE, AND DEPTHS.



MANHOLE CONSTRUCTION NOTES:

- ① REPLACE MANHOLE RIM PER DETAIL 2, CU-42
- ② CIP LINE MANHOLE PER DETAIL 1, CU-43
- ③ REPAIR MANHOLE BENCH PER DETAIL 2, CU-43
- ④ REPLACE MANHOLE WITH NEW 48"Ø MANHOLE PER DETAIL 1, CU-41. REPLACE EX CIP PIPE TIE-INS WITH SDR-35 PVC AS APPLICABLE

CONSTRUCTION NOTES:

- 1** REPLACE TO MATCH EXISTING CONCRETE SIDEWALK PER DETAIL 5, CU-46.
- 2** REPLACE TO MATCH EXISTING CURB TYPE AND CONDITION PER DETAILS 1, 2, OR 4, CU-46.
- 3** RE-STRIPE PARKING STALL PER DETAIL 3 AND 4, CU-46.
- 4** REPLACE TRASH ENCLOSURE TO MATCH EXISTING CONDITIONS. CHAIN LINK FENCE SHALL BE SALVAGED AND REUSED. FENCE IS BLACK VINYL COATED WITH ALUMINUM PRIVACY SLOTS. CONCRETE PADS SHALL BE DOCUMENTED AND SUBMITTED TO THE COR ALONG WITH A SHOP DRAWING FOR RECONSTRUCTION FOR APPROVAL PRIOR TO CONSTRUCTION.
- 5** STAIRS SHALL BE SALVAGED AND REUSED. DAMAGED PIECES SHALL BE REPLACED WITH COMPONENTS THAT MATCH PERIOD, STYLE, MATERIAL, AND COLOR. (SEE FIGURE 2 ON SHEET CU-2C ONLY).
- 6** TURN OFF STEAM LINE 24 HOURS PRIOR TO CIPP INSTALLATION; NOTIFY COR AT LEAST 2 WEEKS PRIOR TO SHUTTING OFF STEAM LINE. TEMPERATURE MUST MEET MANUFACTURER REQUIREMENTS. (SHEET CU-2B ONLY).
- 7** PROTECT FACILITY IN PLACE. REMOVAL OF ANY STRUCTURAL COMPONENTS SHALL BE COORDINATED WITH VA COR PRIOR TO DEMOLITION. (SHEET CU-2B ONLY).
- 8** REPLACE ASPHALT PER DETAIL 6, CU-46, COMPLY WITH TRAFFIC NOTES ON G-2 AS APPLICABLE.

LEGEND

- | | |
|---|-------------------------------|
|  | EXISTING TREE, DECIDUOUS |
|  | RELIN WITH CIPP |
|  | CLEAN PIPE IN PLACE |
|  | OPEN CUT PIPE AND REPLACE |
|  | PARKING AND DRIVE AREA |
|  | CONCRETE WALKWAY AND DRIVEWAY |

PIPE CONSTRUCTION NOTES:

- ① CUT ROOTS FLUSH WITH PIPE WALL.
- ② REMOVE DEBRIS AND GREASE FROM PIPE.
- ③ INSTALL NEW STORM DRAIN LINE (SHEET CU-2B ONLY).
- ④ EXISTING TREE(S) TO BE REMOVED AND REPLACED PRIOR TO OPEN CUT SEWER REPLACEMENT (ADD OR DEDUCT ALTERNATE #1).
- ⑤ IMPROVE EXISTING CAST IRON LATERAL PER DETAIL 5, CU-45.
- ⑥ INSTALL CLEANOUT IN MONUMENT PER DETAIL 3, CU-42.

MANHOLE INFORMATION

LABEL	NORTHING	EASTING
SMH 76	248869.20	2516300.96
SMH 77	248690.02	2516154.91

LOCATION OF UNDERGROUND UTILITIES

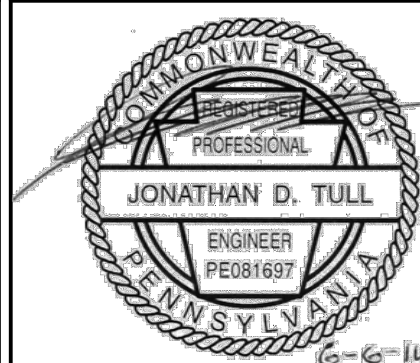
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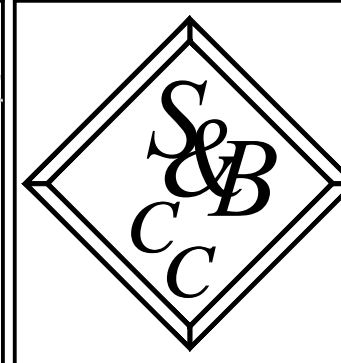
ALWAYS THINK SAFETY

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CONSULTANTS:



ENGINEERS:



S&B CHRIST CONSULTING, LLC
OPS RESEARCH & CIVIL/ENVIRONMENTAL ENGINEERING
5580 S. FORT APACHE RD. #130
LAS VEGAS, NV 89148
OFFICE: (702) 202-6004 SBCHRISTCO

Drawing Title	SEWER IMPROVEMENTS AREA D
---------------	------------------------------

Approved: Facilities Engineering Service Chief

Approved: Medical Center Director

Project Title
VAMC COATESVILLE
SANITARY SEWER
REPLACEMENT

VAMC COATESVILLE

☐ Checked

PA

Drawn

Drawn

Project Number

542-06-108

Building Number

	Drawing Number
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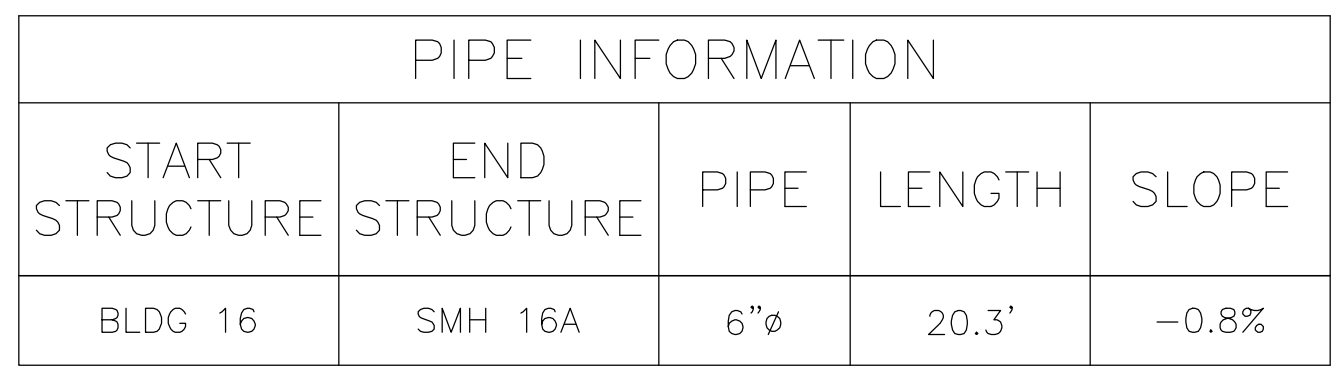
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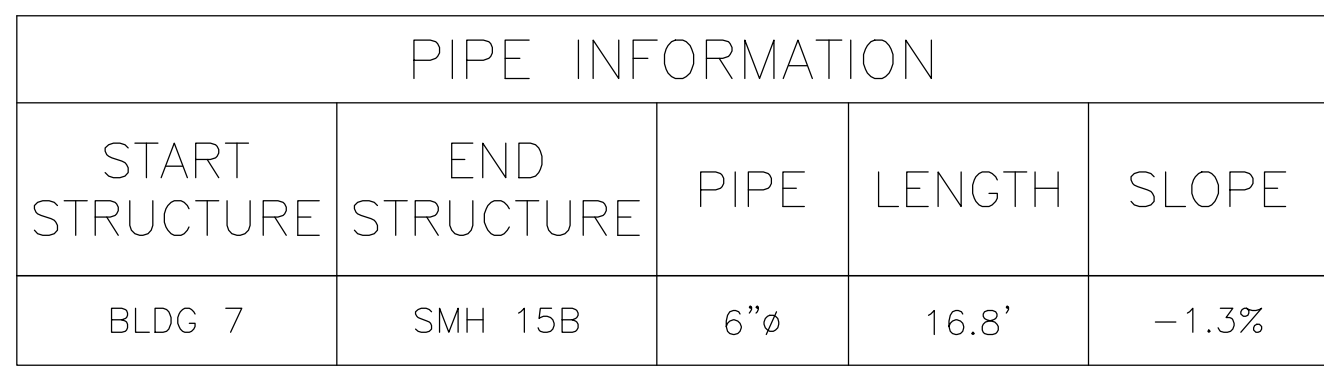
FINAL CONSTRUCTION DOCUMENTS

Office of
Construction
and Facilities
Management

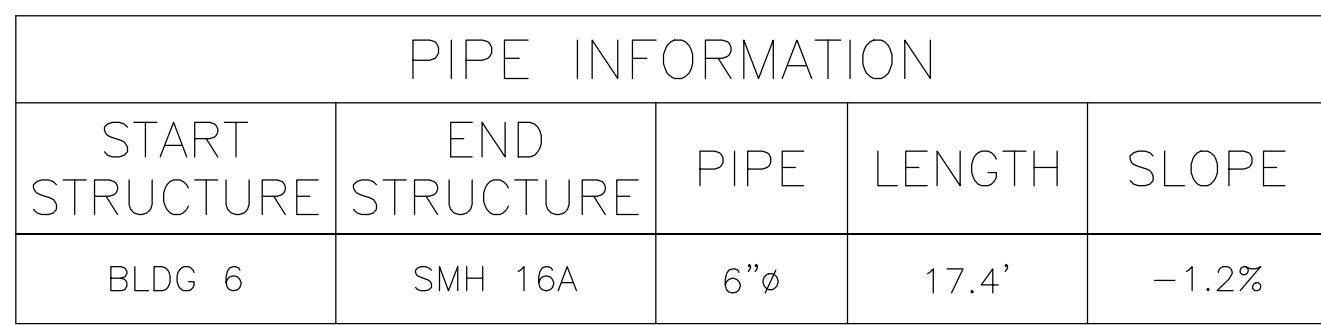




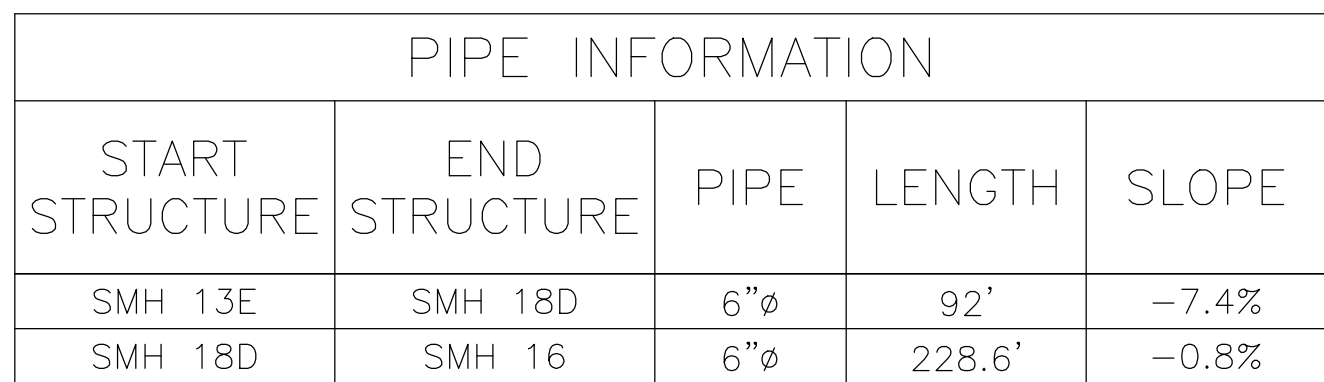
PROFILE VIEW OF BLDG 16 - SMH 16A ALIGNMENT
SCALE 1" VERT = 4' 1" HORIZ = 100'



PROFILE VIEW OF BLDG 7 - SMH 15B ALIGNMENT
SCALE 1" VERT = 4' 1" HORIZ = 100'

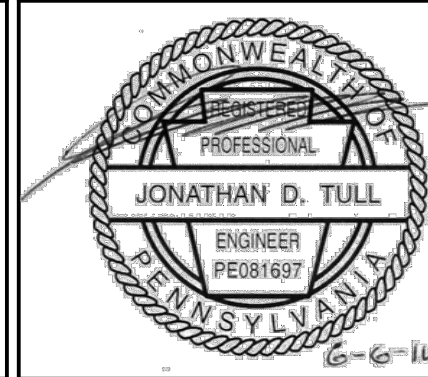


PROFILE VIEW OF BLDG 6 - SMH 12C ALIGNMENT
SCALE 1" VERT = 4' 1" HORIZ = 100'



PROFILE VIEW OF SMH 13E - SMH 16 ALIGNMENT
SCALE 1" VERT = 4' 1" HORIZ = 100'

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 LAS VEGAS, NV 89148
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S&BCHRISTCONSULTING.COM

Approved: Medical Center Director

Drawn
MJR

CU-3A
Dwg. 12 of 21

Department of
Veterans Affairs

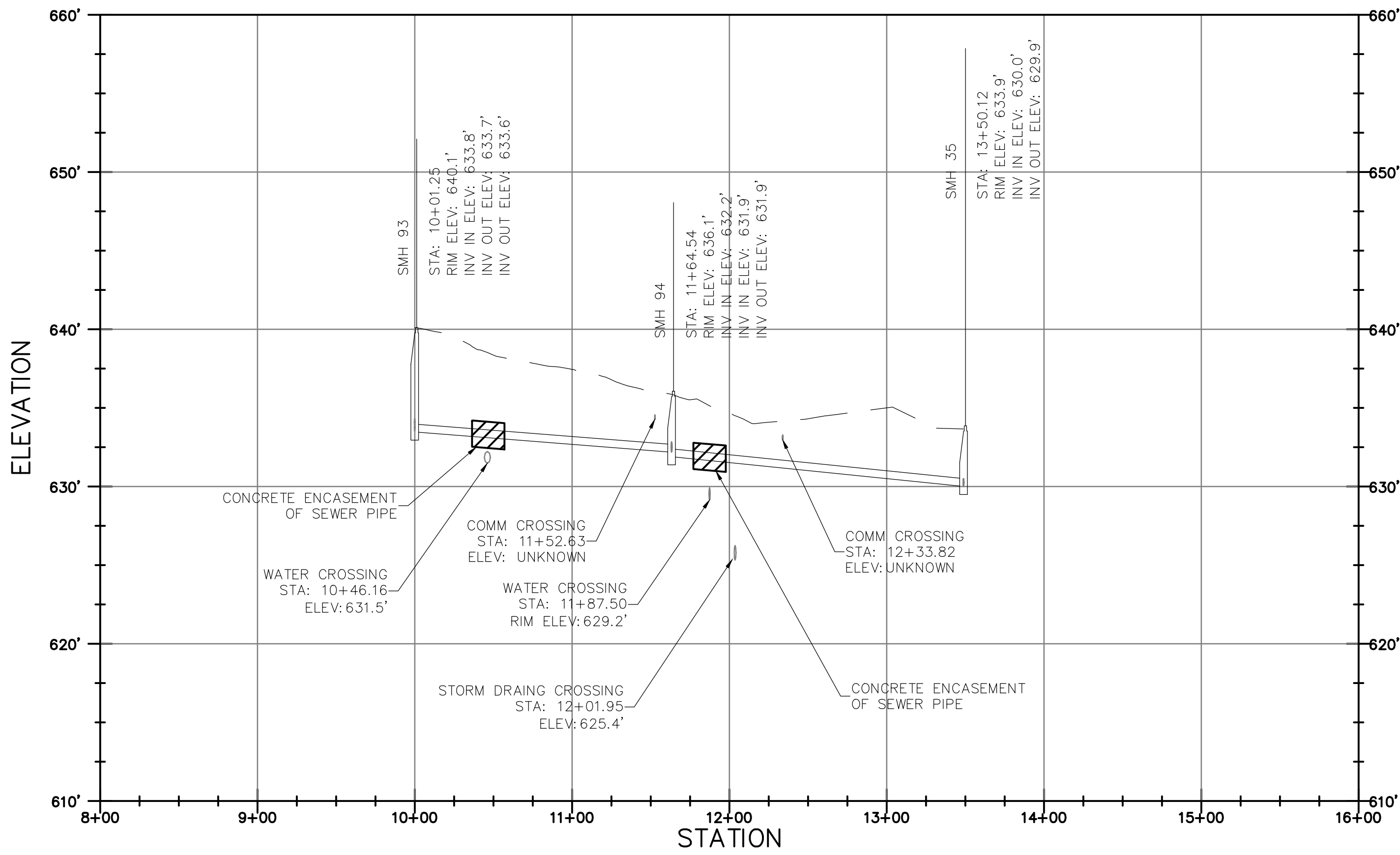
FINAL CONSTRUCTION DOCUMENTS

NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN ARE FOR CONVENIENCE AND SHOULD NOT BE RELIED UPON.
2. CONSTRUCT MANHOLES IN ACCORDANCE WITH DETAIL 1, SHEET CU-41.
3. CONSTRUCT PIPE IN ACCORDANCE WITH DETAIL 5, SHEET CU-41.
4. INVERT ELEVATION AT BUILDING TIE-IN ESTIMATED BUT NOT VERIFIED. CONTRACTOR SHALL FIELD VERIFY TIE-IN LOCATION.
5. WHERE WATER LINE IS WITHIN 18-INCHES OVER THE SEWER, THE SEWER SHALL BE CONCRETE ENCASED 10 FEET ON EITHER SIDE OF THE PIPE PER DETAIL 5, SHEET CU-41.

one eighth inch = one foot
0 4 8 16
one quarter inch = one foot
0 4 8
one eighth inch = one foot
0 4 8 16
three eighths inch = one foot
0 4 8 12 16
one half inch = one foot
0 6 12
three quarters inch = one foot
0 6 12
one inch = one foot
0 6 12
one and one half inches = one foot
0 6 12 18
three inches = one foot
0 6 12

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PIPE INFORMATION				
START STRUCTURE	END STRUCTURE	PIPE	LENGTH	SLOPE
SMH 93	SMH 94	6"ø	163.3'	-0.8%
SMH 94	SMH 35	6"ø	185.6'	-1.0%

PROFILE VIEW OF SMH 93 - SMH 35 ALIGNMENT
SCALE: 1" VERT = 4' 1" HORIZ = 100'

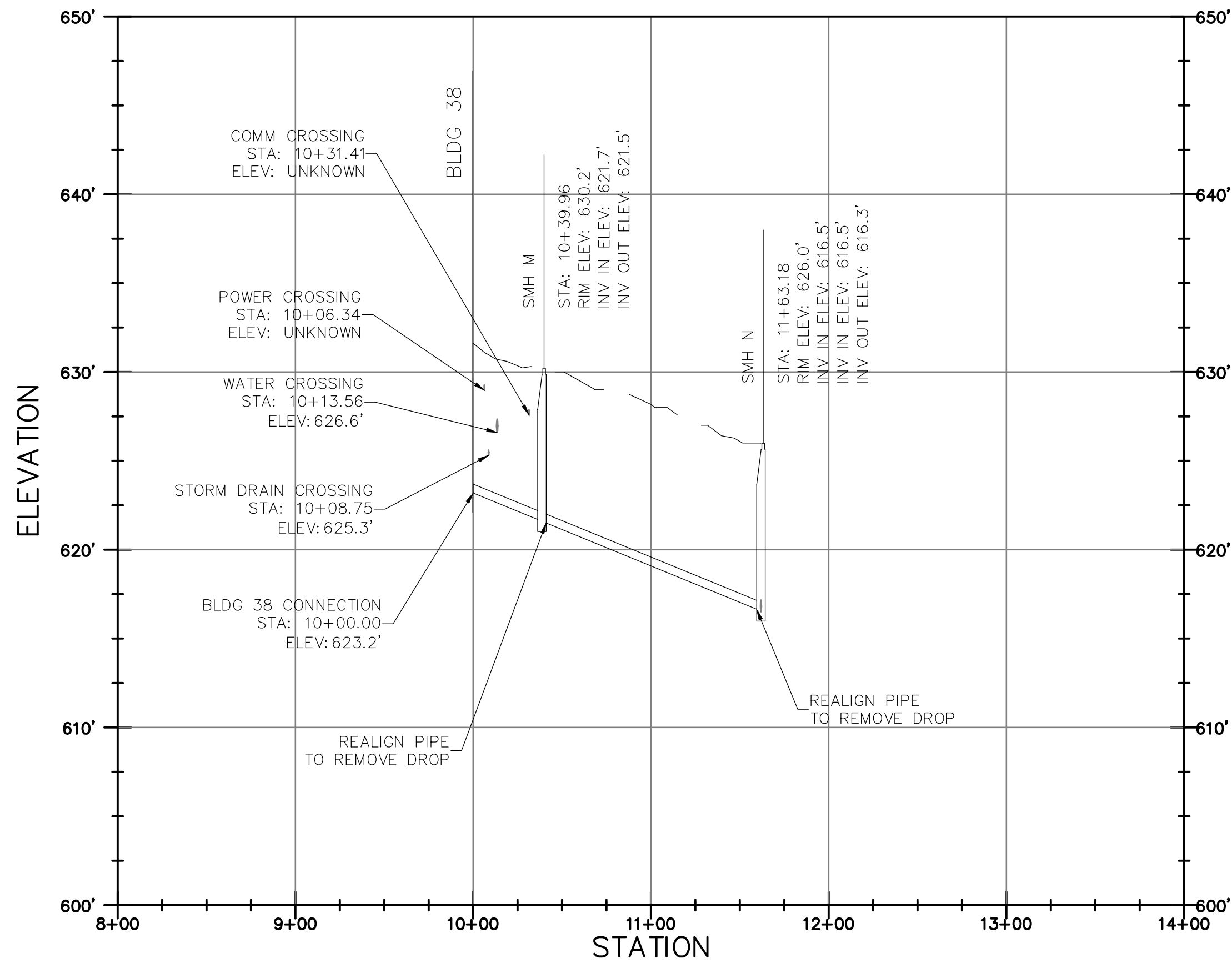
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CU-3B

- NOTES:
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN ARE FOR CONVENIENCE AND SHOULD NOT BE RELIED UPON.
 - CONSTRUCT MANHOLES IN ACCORDANCE WITH DEATIL 1, SHEET CU-41.
 - CONSTRUCT PIPE IN ACCORDANCE WITH DETAIL 5, SHEET CU-41.
 - INVERT ELEVATION AT BUILDING TIE-IN ESTIMATED BUT NOT VERIFIED. CONTRACTOR SHALL FIELD VERIFY TIE-IN LOCATION.
 - WHERE WATER LINE IS WITHIN 18-INCHES OVER THE SEWER, THE SEWER SHALL BE CONCRETE ENCASED 10 FEET ON EITHER SIDE OF THE PIPE PER DETAIL 5, SHEET CU-41.

VA FORM 08-6231		CONSULTANTS:				ENGINEERS:		Drawing Title PROFILES - AREA B		Project Title VAMC COATESVILLE SANITARY SEWER REPLACEMENT		Project Number 542-06-108		Office of Construction and Facilities Management Department of Veterans Affairs	
								Approved Facilities Engineering Service Chief		Location VAMC COATESVILLE		Building Number			
								Approved Medical Center Director		Date 6/4/14		Drawing Number CU-3B			
										Checked JDT		Drawn MJR			
Revisions:		Date										Dwg 13 of 21			

one eighth inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one half inch = one foot
three quarters inch = one foot
one inch = one foot
one and one half inches = one foot
two inches = one foot
three inches = one foot

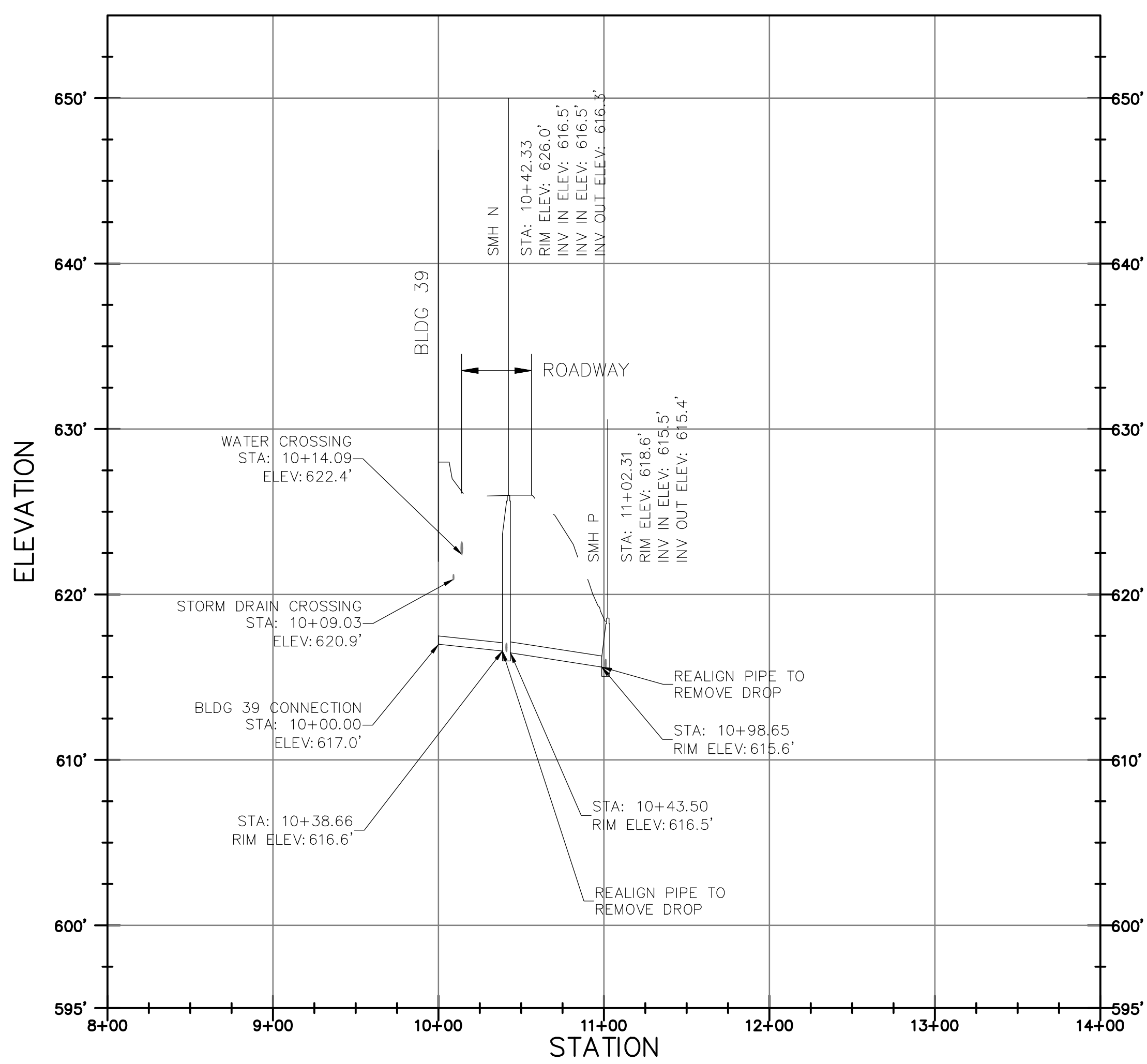
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PIPE INFORMATION				
START STRUCTURE	END STRUCTURE	PIPE	LENGTH	SLOPE
BLDG 13	SMH M	6"ø	39.7'	-4.1%
SMH M	SMH N	6"ø	123.2'	-4.1%

PROFILE VIEW OF BLDG 38 - SMH N ALIGNMENT
SCALE 1" VERT = 4' 1" HORIZ = 100'

1
CU-3C



PIPE INFORMATION				
START STRUCTURE	END STRUCTURE	PIPE	LENGTH	SLOPE
BLDG 39	SMH N	6"ø	42.1'	-1.0%
SMH N	SMH P	8"ø	60'	-1.5%

PROFILE VIEW OF BLDG 39 - SMH P ALIGNMENT
SCALE 1" VERT = 4' 1" HORIZ = 100'

2
CU-3C

NOTE:

EMBED A CARSONITE SNOW POLE (SNFB 072 07) WITH REFLECTIVE SHEETING IN SMH P RIM TO EXTEND A MIN 3' HIGH TO LOCATE MANHOLE UNDER SNOW.

NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. UTILITIES SHOWN ARE FOR CONVENIENCE AND SHOULD NOT BE RELIED UPON.
- CONSTRUCT MANHOLES IN ACCORDANCE WITH DETAIL 1, SHEET CU-41.
- CONSTRUCT PIPE IN ACCORDANCE WITH DETAIL 5, SHEET CU-41.
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- WHERE WATER LINE IS WITHIN 18-INCHES OVER THE SEWER, THE SEWER SHALL BE CONCRETE ENCASED 10 FEET ON EITHER SIDE OF THE PIPE PER DETAIL 5, SHEET CU-41.

FINAL CONSTRUCTION DOCUMENTS

		CONSULTANTS:		ENGINEERS: S&B CHRIST CONSULTING, LLC OPS RESEARCH & CIVIL/ENV ENGINEERING 5580 S. FORT APACHE RD. #130 LAS VEGAS, NV 89148 OFFICE: (702) 202-6004 SBCHRISTCONSULTING.COM	Drawing Title PROFILES - AREA C		Project Title VAMC COATESVILLE SANITARY SEWER REPLACEMENT		Project Number 542-06-108		Office of Construction and Facilities Management 				
							Location VAMC COATESVILLE PA		Building Number						
					Approved Facilities Engineering Service Chief		Date 6/4/14		Checked JDT	Drawn MJR					
					Approved Medical Center Director				Drawing Number CU-3C						
Revisions:		Date	Dwg 14 of 21												



- FINAL CONSTRUCTION DOCUMENTS

		CONSULTANTS:				ENGINEERS:				Drawing Title PROFILES - AREA D		Project Title VAMC COATESVILLE SANITARY SEWER REPLACEMENT		Project Number 542-06-108		Office of Construction and Facilities Management	
						Location VAMC COATESVILLE PA		Approved Facilities Engineering Service Chief		Drawing Number CU-3D		Building Number					
Revisions:		Date				Location VAMC COATESVILLE PA		Approved Medical Center Director		Date 6/4/14		Checked JDT		Drawn MJR		Dwg. 15 of 21	
						Date 6/4/14										 Department of Veterans Affairs	